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# **Smart Intrusion Sensor/Alarm**

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# Smart Intrusion Sensor/Alarm (SISA)

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## RF CIRCUITRY:

Frequency: 900 MHz  
Base-to-alarm range: 500 meters  
Modulation: On - Off Keying  
Data rate: 9600 bits/s

## SENSORS:

3 Micromechanical microphone and 1 commercial geophone

## POWER:

High efficiency switching regulator, 4 L91 batteries  
Nominal operating life: 2 weeks

## DIGITAL ELECTRONICS:

Low power DSP processor, 12 bit A/D converter  
MCM-L packaging

## SIGNAL PROCESSING:

Report intrusion by foot traffic or vehicle traffic  
Algorithms developed in consultation with Army Research Lab

**SIZE:** 2.3" X 2.1" X .9" (1.2" to the top of the microphones)

## FEATURES:

Signal sampling, processing, and control can be changed *in the field* for mission tailoring

